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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/558,588	04/26/2000	Kenji Shibata	3008-03	1056
7	590 03/27/2002			
Lalos & Keegan 1146 Nineteenth Street N W Fifth Floor		EXAMINER		
			WILLE, DOUGLAS A	
Washington, DC 20006-3404			ART UNIT	PAPER NUMBER
			2814	

Please find below and/or attached an Office communication concerning this application or proceeding.

# Application No. Applicant(s) 09/558,588 SHIBATA ET AL Office Action Summary Examiner Art Unit Douglas A Wille 2814 -- The MAILING DATE of this communication app ars on the cov r sh et with th correspondenc address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - if NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 07 February 2002. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1,85(a), 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

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1) Notice of References Cited (PTO-892)

Attachment(s)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Interview Summary (PTO-413) Paper No(s). \_\_\_\_
Notice of Informal Patent Application (PTO-152)

6) Other:

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## DETAILED ACTION

## Claim Rejections - 35 USC § 103

- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- Claims 1 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatano et al. in view of Sasaki et al.
- See prior Office Action for details.

# Response to Arguments

- Applicant's arguments filed 2/7/01 have been fully considered but they are not persuasive.
- 5. Applicant argues that the layer 47 of Hatano et al. which is described by Hatano et al. as being low in Al is only low in Al with respect to layers 47 and 48 but that is a claimed feature and note that if it has any Al, the band gap is greater than the active layer which has no Al.
- Applicant states that layer 47 is not an insertion layer but while not called an insertion layer by Hatano et al., it has all the attributes of that layer, as claimed.
- Applicant argues that Hatano et al. do not show various features, that are not claimed, but since they are not claimed, they are not considered.
- Applicant states that Sasaki et al. does not teach an insertion layer but note that this is piecemeal analysis and Sasaki et al. is relied upon to teach the window layer.
- 9. Applicant states that Hatano et al. do not show an active layer with Al but claim 4, which is referenced only states the material is in the AlGaInP material system, in which the Hatano et al. active layer is.

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Applicant states that the claimed carrier range has been ignored but, apparently,
Applicant has ignored the rejection and is directed to paragraph 4 of the prior rejection.

#### Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949. The examiner can normally be reached on M-F (6:15-3:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

# US 0955858809P1



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